



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX LABORATORY
1337 S. 46TH STREET
BLDG. 201
RICHMOND, CA 94804-4698

LAS VEGAS WASH
Sampled Oct 29, 1999
BEFORE INTERCEPTION

DEC 08 1999

MEMORANDUM

SUBJECT: Case R99S48, SDG 99306A
Results for Perchlorate and Total Dissolved Solids Analysis

FROM: *B. Bettencourt*
Brenda Bettencourt, Director
EPA Region 9 Laboratory (PMD-2)

TO: Kevin Mayer, Remedial Project Manager
Northern California Cleanup Section (SFD-7-2)

Attached are the report narrative and results spreadsheet from analysis of samples from the Colorado River Perchlorate Study. These data have been reviewed in accordance with EPA Region 9 Laboratory policy. Summary information for the data included in this report is as follows:

SITE/PROJECT:	Colorado River Perchlorate Study
CASE:	R99S48
LABORATORY:	U. S. EPA Region 9 Laboratory
SAMPLE DELIVERY GROUP(s):	99306A
ANALYSIS:	Perchlorate (R9 Lab SOP 531) Total Dissolved Solids (EPA method 160.1)

A full documentation package for these data, including raw data and sample custody documentation, has been prepared and is filed at the Region 9 Laboratory. Please contact Vance Fong of the Quality Assurance Program (PMD-3) to request review and/or validation of the data.

If you have any questions please contact Rich Bauer at (510) 412-2312, or Ken Hendrix at (510) 412-2321.

ATTACHMENT: Analytical Report

USEPA REGION 9 LABORATORY
REPORT NARRATIVE

CASE NUMBER:	R99S48
SAMPLE DELIVERY GROUP:	99306A
PROGRAM:	SUPERFUND
DOCUMENT CONTROL #:	ESTW-9B-2723
DATE:	11/29/99
ANALYSIS:	TOTAL DISSOLVED SOLIDS AND PERCHLORATE

SAMPLE NUMBERS:

<u>SAMPLE ID</u>	<u>LABORATORY SAMPLE</u>
LVW@No. Shore Bridge	AB25366

GENERAL COMMENTS

One water sample was received from the Colorado River Perchlorate Study Superfund project on 11/02/99.

The requested analyses were total dissolved solids (EPA Method 160.1) and perchlorate (Region 9 Laboratory SOP 531). All samples were analyzed within the required holding times.

SAMPLE RECEIPT AND PRESERVATION

No shipping or preservation issues were encountered..

QA/QC SUMMARY

No analytes were detected in the blanks associated with this SDG.

No perchlorate LFM was analyzed; the sample required a 10-fold dilution.

The RPDs for all duplicates were less than or equal to the 20% QC limit for all analytes where the sample result was greater than or equal to 5 times the quantitation limit. For analytes where the sample result was less than 5 times the quantitation limit the difference between the duplicates was less than the quantitation limit.

All LFB recoveries were within the QC limits.

Questions concerning the data can be answered by Patrick Hirata at (510) 412-2354.

Laboratory Reagent Blanks (LRB)

A laboratory reagent blank is laboratory reagent water or baked sand with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. The laboratory reagent blank is used to determine the level of contamination introduced by the laboratory during analysis.

Laboratory Fortified Matrix and Laboratory Duplicate Analysis

The laboratory fortified matrix spike sample and laboratory duplicate analyses provide information about the effect of the sample matrix on sample preparation and measurement. Poor percent recovery (%R) results and large relative percent difference (RPD) between duplicates may indicate inconsistent laboratory technique, sample nonhomogeneity in soils, or matrix effects which may interfere with analysis.

Laboratory Fortified Blank (LFB) Analysis

The laboratory fortified blank is laboratory reagent water or baked sand with a known concentration of the analytes of interest added by the laboratory with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. Poor percent recovery (%R) results may indicate inconsistent laboratory technique.

EPA REGION 9 LABORATORY-RICHMOND, CA
SUMMARY OF ANALYTICAL RESULTS

Case Number: R99S48
Site: Colorado River Perchlorate Study
SDG: 99306A
Date: 11/29/99

Analysis: Perchlorate and TDS
Matrix: Water

Station Location	N/A			N/A			Quantitation
Sample I.D.	LVW @ No. Sh.			Reagent Blank			Limit
Lab Sample I.D.	AB25366			N/A			N/A
Date of Collection	11/01/99			N/A			N/A
Analyte	Result	Q	Com	Result	Q	Com	Result
Perchlorate (ug/L)	820			5 U			5
Total Dissolved Solids (mg/L)	1900			20 U			20

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - The parameter was analyzed for, but was not detected; The associated value is the sample detection limit, adjusted for dilution, if any.

J - The associated value is an estimated quantity.